

In the Claims:

The following listing of claims will replace all prior versions and/or listings of claims in the application:

Listing of Claims:

1. (Previously Presented) A method of implementing an intelligent video surveillance system, comprising:

obtaining a frame sequence from an input video stream;

executing a first-pass method for each frame of the frame sequence, the first-pass method comprising the steps of:

aligning the frame with a scene model; and

updating a background statistical model;

finalizing the background statistical model;

executing a second-pass method for each frame of the frame sequence, the second-pass method comprising the steps of:

labeling each region of the frame; and

performing spatial/temporal filtering of the regions of the frame;

identifying and classifying objects using the labeled and filtered regions; and

analyzing behaviors of at least one of the objects.

2. (Original) A computer-readable medium comprising software implementing the method of

Claim 1.

3. (Original) An intelligent video surveillance system comprising a computer system comprising:

a computer; and

a computer-readable medium according to Claim 2.

4. (Original) A method of implementing an intelligent video surveillance system, comprising:
obtaining a frame sequence from a video stream;

for each frame in the frame sequence, performing the following steps:

aligning the frame with a scene model;

building a background statistical model;

labeling the regions of the frame; and

performing spatial/temporal filtering;

identifying and classifying objects based on the results of the labeling and filtering; and

analyzing behaviors of at least one object.

5. (Original) A computer-readable medium comprising software implementing the method of Claim 4.